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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,041	06/04/2002	Chun-Chih Yang	VIAP0040USA	9772
27765	7590 02/17/2006		EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506			SHARON, AYAL I	
MERRIFIELD			ART UNIT PAPER NUMBER	
			. 2123	

DATE MAILED: 02/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)			
	10/064,041	YANG, CHUN-CI	нін		
Office Action Summary	Examiner	Art Unit			
	Ayal I. Sharon	2123			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence a	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 16(a). In no event, however, may a ill apply and will expire SIX (6) MON cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this (BANDONED (35 U.S.C. § 133).			
Status			•.		
1)⊠ Responsive to communication(s) filed on <u>05 De</u>	ocember 2005				
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closed in accordance with the practice under E.			ic ments is		
Disposition of Claims	x parto quajro, roco c.	, 100 0.0. 210.			
4) Claim(s) <u>1-10</u> is/are pending in the application.	in from consideration				
4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.	in from consideration.				
· — · · · — —					
6) Claim(s) <u>1-10</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner					
10)⊠ The drawing(s) filed on <u>04 June 2002</u> is/are: a)	igttize accepted or b) $igsqcup$ obje	cted to by the Examiner.	,		
Applicant may not request that any objection to the d	lrawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction	on is required if the drawing	(s) is objected to. See 37 C	FR 1.121(d).		
11) The oath or declaration is objected to by the Exa	aminer. Note the attached	d Office Action or form P	TO-152.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. §	3 119(a)-(d) or (f).			
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents	have been received in A	application No			
3. Copies of the certified copies of the priori	ty documents have been	received in this National	l Stage		
application from the International Bureau	(PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of	of the certified copies not	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) D Notice of I	s)/Mail Date nformal Patent Application (PT	O-152)		
Paper No(s)/Mail Date <u>12/5/2005</u> .	6)	⊸ ·			

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DETAILED ACTION

Introduction

1. Claims 1-10 of U.S. Application 10/064,041 originally filed on 6/4/2002, are currently pending. The application claims foreign priority to Taiwanese application 090117751, filed on 7/20/2001.

Information Disclosure Statement

2. The IDS filed on 12/5/2005 has been considered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The prior art used for these rejections is as follows:
 - a. Van De Vanter, U.S. Patent 5,813,019. ("Van De Vanter").
 - b. Vaidyanathan et al., U.S. Patent 6,502,233. ("Vaidyanathan").
 - c. Qualis Design Corp., "Verilog HDL Quick Reference Card." © 1995. ("Qualis_Verilog").

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d. Qualis Design Corp., "VHDL Quick Reference Card." © 1995. ("Qualis_VHDL").

- 5. The claim rejections are hereby summarized for Applicant's convenience. The detailed rejections follow.
- 6. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van De Vanter in view of Vaidyanathan and further in view of Qualis_Verilog and Qualis_VHDL.
- 7. In regards to Claim 1, Van De Vanter teaches the following limitations, but for software files as opposed to hardware description files:
 - 1. A <u>method</u> for converting a text file into a circuit design database and vice versa so that a user can update the text file and the corresponding circuit design database; the <u>method</u> comprising:

compiling a hardware description written in the text file into the corresponding circuit design database;

(See Van De Vanter, especially: col.3, lines 9-20; and col.3, line 60 to col.4, line 41; and col.28, line 32 to col.30, line 64)

converting comment text written in the text file into a code stream according to a predetermined conversion rule;

(See Van De Vanter, especially: col.3, lines 9-20; and col.3, line 60 to col.4, line 41; and col.28, line 32 to col.30, line 64)

updating the circuit design database and compiling the updated circuit design database into the corresponding hardware description; and

(See Van De Vanter, especially: col.3, lines 9-20; and col.3, line 60 to col.4, line 41; and col.28, line 32 to col.30, line 64)

converting the code stream into the comment text, and inserting the comment text into the hardware description corresponding to the updated circuit design database so as to generate an updated text file.

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(See Van De Vanter, especially: col.3, lines 9-20; and col.3, line 60 to col.4, line 41; and col.28, line 32 to col.30, line 64)

However, while Van De Vanter teaches these limitations for software files, Van De Vanter does not expressly teach that these files are stored in a database.

Vaidyanathan, on the other hand, expressly teaches that "computer programs are typically composed of many different source code files and programming libraries." (See col.1, lines 33-36). Vaidyanathan also teaches the use of a database 225, and "one or more pre-created databases" that "contain information that seldom changes, such as operating system declaration and header files …" (See col.6, lines 47-61, and col.7, lines 9-15). Examiner interprets that these libraries / databases correspond to the claimed "database".

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Van De Vanter with those of Vaidyanathan, because both teach the use of parsing of tokens to find desireable information (see col.6, lines 15-30).

Van De Vanter also does not expressly teach that the above limitations apply to hardware description files. (Van De Vanter only expressly teaches that these limitations apply to software files).

Qualis_Verilog and Qualis_VHDL, on the other hand, expressly teach that the hardware description languages VHDL and Verilog both have lexical elements called comments (see section 9 of each reference), and that comments have unique comment beginning delimiters ("//" in Verilog, and "- -" in VHDL), similar to those used in software languages ("/*" in C, and "//" in C++). Van De

Vanter expressly teaches that the Comment Processor (see col.28, lines 32-47) uses the delimiter to separate the comments from regular program statements.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Van De Vanter with those of Qualis_Verilog and Qualis_VHDL, because VHDL and Verilog are programming languages with comment delimiters that enable them to be used with the Van De Vanter invention.

- 8. In regards to Claim 2, Van De Vanter teaches the following limitations:
 - 2. The <u>method</u> of claim 1 wherein a format of the comment text is different from a format of the code stream after being converted according to the predetermined conversion rule.

(See Van De Vanter, especially: col.3, lines 9-20; and col.3, line 60 to col.4, line 41; and col.28, line 32 to col.30, line 64)

- 9. In regards to Claim 3, Van De Vanter teaches the following limitations:
 - 3. The <u>method</u> of claim 1 wherein the text file conforms to a specification of a Verilog hardware description language.

This claim is rejected on the same grounds as claim 1.

- 10. In regards to Claim 4, Van De Vanter teaches the following limitations:
 - 4. The <u>method</u> of claim 3 further comprising applying an electronic design aided tool (EDA) to compile the hardware description into the corresponding circuit design database, and updating the circuit design database through the electronic design aided tool.

(See Van De Vanter, especially: col.3, lines 9-20; and col.3, line 60 to col.4, line 41; and col.28, line 32 to col.30, line 64)

- 11. In regards to Claim 5, Van De Vanter teaches the following limitations:
 - 5. The <u>method</u> of claim 1 wherein the code stream comprises space codes, tab codes, or enter codes.

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(See Van De Vanter, especially: see definition of "Separator" at col.6, lines 30-39 and definition of "Token Gap" at col.6, lines 58-62)

12. In regards to Claim 6, Van De Vanter teaches the following limitations:

6. The <u>method</u> of claim 1 further comprising: generating a header attached before the code stream for indicating a starting point of the code stream.

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(See Van De Vanter, especially: see definition of "Insertion point" at col.5, lines 59-64)

13. In regards to Claim 7, Van De Vanter teaches the following limitations:

7. The <u>method</u> of claim 6 wherein the header comprises space codes, tab codes, or enter codes.

(See Van De Vanter, especially: see definition of "Separator" at col.6, lines 30-39 and definition of "Token Gap" at col.6, lines 58-62)

- 14. In regards to Claim 8, Van De Vanter teaches the following limitations:
 - 8. The <u>method</u> of claim 1 wherein the code stream is stored in a data container.

(See Van De Vanter, especially: col.7, lines 11-32)

- 15. In regards to Claim 9, Van De Vanter teaches the following limitations:
 - 9. The method of claim 8 wherein the data container is stored in a memo.

(See Van De Vanter, especially: col.7, lines 11-32)

- 16. In regards to Claim 10, Van De Vanter teaches the following limitations:
 - 10.The <u>method</u> of claim 8 wherein the data container is stored in a hard disk drive.

(See Van De Vanter, especially: col.7, lines 11-32)

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Response to Amendment

Re: Information Disclosure Statement

17. Applicant still has not corrected the problem regarding the IDS filed 3/14/2003.

The objection has therefore been maintained.

Re: Claim Rejections - 35 USC § 101

- 18. Applicant has amended the claims to overcome the 35 USC § 101 rejections.
- 19. Examiner notes that this amendment has broadened the scope of the claims, as argued by Applicant on p.4 of the amendment: "The method is not restricted to being performed merely as a computer algorithm, and can be implemented in numerous forms of tangible items such as a computer memory or a computer system."

Re: Claim Rejections - 35 USC § 102

- 20. Applicant's arguments regarding the Brodie reference (see pp.5-6 of Applicant's amendment filed 12/5/05) are persuasive. Examiner has withdrawn all 35 USC § 102 rejections based on the Brodie reference.
- 21. New prior art rejections have been applied, in light of Applicant's amendments to the claims.

Re: Claim Rejections - 35 USC § 103

22. Applicant's arguments regarding the Brodie reference (see pp.5-6 of Applicant's amendment filed 12/5/05) are persuasive. Examiner has withdrawn all 35 USC § 103 rejections based on the Brodie reference.

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23. New prior art rejections have been applied, in light of Applicant's amendments to the claims.

Conclusion

24. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ayal I. Sharon whose telephone number is (571) 272-3714. The examiner can normally be reached on Monday through Thursday, and the first Friday of a biweek, 8:30 am – 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached at (571) 272-3749.

Any response to this office action should be faxed to (571) 273- 8300, or mailed to:

USPTO P.O. Box 1450 Alexandria, VA 22313-1450

or hand carried to:

USPTO Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2100 Receptionist, whose telephone number is (571) 272-2100.

Ayal I. Sharon Art Unit 2123 February 10, 2006

Paul D. Rodriguez 2/14/06
Primary Examiner
Art Unit 2125